

# CTS with ISO-NE Tariff Revisions

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#### **Management Committee**

June 16, 2015 Krey Corporate Center



#### **Benefits of CTS with ISO-NE**

#### Coordinated Transaction Scheduling (CTS)

The objective of CTS is to improve efficiency of energy scheduling with neighboring ISOs.

#### Efficiency Impact

CTS will allow market participants to schedule based on the price difference between the NYISO and the neighboring ISOs, thereby:

- improving the arbitrage opportunities available;
- improving the convergence of energy prices throughout the regions resulting in more efficient utilization of existing transmission capability; and
- allowing more efficient access to lower cost resources throughout the regions.

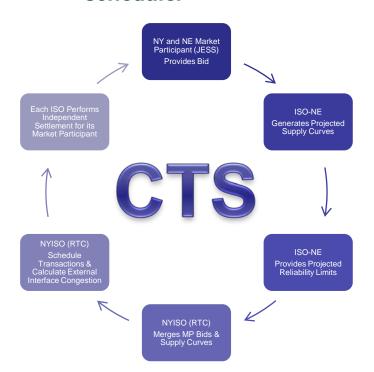
In addition, the NYISO and ISO-NE will make quarter-hour scheduling available at the Sandy Pond Proxy Generator Bus when CTS is implemented.



#### **Benefits of CTS with ISO-NE**

#### Today

- RTC schedules interchange without any knowledge of ISO-NE reliability limits.
- Any reductions in the normal Reliability Limits after RTC has produced an interchange schedule can result in transaction cuts by operators during the checkout process, potentially resulting in a less economic interchange schedule.



## Tomorrow (post CTS w/ ISO-NE activation)

- RTC will be supplied with reliability limits as inputs, allowing RTC to schedule the most economic interchange possible within the range of the limits.
- Transaction cuts after RTC has scheduled interchange should be minimized.



#### **CTS Review**

# The NYISO has reviewed the concepts contained in the Joint Coordination Agreement at previous working group meetings.

CTS Workshop on February 12, 2015

http://www.nyiso.com/public/webdocs/markets\_operations/committees/bic\_miwg/meeting\_materials/2015-02-12/CTS%20with%20ISO-NE%20How%20it%20will%20Work%203.pdf

MIWG on April 2, 2015

http://www.nyiso.com/public/webdocs/markets\_operations/committees/bic\_miwg/meeting\_materials/2015-04-02/CTS%20with%20ISO-NE%20How%20it%20will%20Work%205.pdf

MIWG on April 23, 2015

http://www.nyiso.com/public/webdocs/markets\_operations/committees/bic\_miwg/meeting\_materials/2015-04-23/agenda%202%20CTS%20with%20ISO-NE%20Tariff%20Revisions.pdf

MIWG on May 20, 2015

http://www.nyiso.com/public/webdocs/markets\_operations/committees/bic\_miwg/meeting\_materials/2015-05-20/agenda%203%20CTS%20with%20ISO-NE%20Tariff%20Revisions%20Follow%20Up.pdf



#### **OATT & MST Updates**

- OATT 6.1, 6.2, and 6.5 Ministerial Changes for defining which transactions are exempt from certain fees
- OATT 16.3 Ministerial Cleanup
- MST Section 4.4.4 Updates for CTS Enabled Proxies at NE buses
- MST Section 17.1.6 Ministerial Change to the definition of Interface ATC Constraint



#### Body

- Article 1.0 Revised definitions and added new definitions for CTS implementation
- Section 2.2 Administration of CTS and implementation of other arrangements added to purpose of agreement
- Section 4.10 Revised to reference another section of agreement for consistency
- Article 6.0 Revisions to exchange of information and confidentiality
- Sections 6.1 Revised to authorize sharing information for administration of CTS
- Section 6.2 Revised description of Data Exchange Contact
- Section 6.4 Revised authority to share Confidential Information not specifically identified in agreement



- Body (cont.)
  - Section 6.5 Revised obligations to protect Confidential Information
  - Section 6.6 New section to address unauthorized transfer of 3<sup>rd</sup>-party intellectual property
  - Section 7.2 7.4 General cleanup of Coordination Committee duties and ministerial updates
  - Section 9.2 Removed, material covered in Article 6
  - Section 11.1 Added description of scheduling checkout procedures for Day-Ahead and Real-Time
  - Article 12.0 Added reference to new Schedule D CTS
  - Section 13.3 Ministerial updates
  - Section 13.4 Added language to not limit payments for Emergency Energy
  - Section 13.5 Ministerial updates



- Body (cont.)
  - Sections 17.1 17.2 Ministerial updates
  - Article 19.0 Dispute Resolution process clarifications
  - Sections 20.2 and 22.2 Ministerial updates
  - Section 22.3 Added notification process between the Parties for self-reporting of potential violations by a Party
  - Section 22.6 Revised description of changes that will be deemed modifications to the agreement
  - Schedule A Updated E205W Intertie substation name
  - Schedule B General cleanup of Coordination Committee duties and ministerial updates
  - Schedule C Article VI Updated invoicing and payment provisions



- Schedule D New for CTS
  - Article 1.0 Provides an overview of CTS and links the Schedule D language to the respective Tariff of each Party
  - Article 2.0 Submittal of CTS Interface Bids
    - NYISO hosts Joint Energy Scheduling System (JESS) bidding platform
    - All bids in JESS must have both NYISO and ISO-NE market participant identified
    - Users can set up trust relationships between individual NYISO and ISO-NE market participants to auto-confirm submitted bids
  - Article 3.0 ISO-NE will calculate forecasted energy prices at the CTS interface (i.e., Roseton Proxy) based on varying interchange levels



- Schedule D New for CTS
  - Article 4.0 Scheduling External Transactions at CTS Enabled Interfaces
    - Describes how CTS Interface Bids are evaluated, and when and how CTS interface congestion is assigned
  - Article 5.0 CTS Enabled Interface Ramp Limits
    - CTS Enabled Interface Ramp Limits
    - Transfer Limits Reflecting Reliability Conditions
    - Establishing Transfer Limits for RTC
    - Interaction Between Transfer Limits and Ramp Limits
  - Article 6.0 Settlement Provisions
    - Each area performs independent real-time settlement based on respective Tariffs
    - CTS interface congestion will be added to NE Roseton Proxy LMP and NY Sandy Pond Proxy prior to ISO-NE settlement



- Schedule D New for CTS
  - Article 7.0 Non-Standard CTS Operation
    - Describes the permitted modifications to ISO-NE Supply Price Points and ISO-NE Transfer Limits during various failure conditions
    - Provision describing when a CTS interface may be scheduled only on an hourly basis
  - Article 8.0 Joint Energy Scheduling System Customer Service; Maintenance; Suspension of CTS; Cooperation
    - Each Party is the primary contact for its respective Market Participants
    - Areas will coordinate maintenance that may impact CTS processes
    - Under extreme conditions the Parties may need to suspend the normal CTS scheduling processes.
      - In such conditions, the Parties will agree to an interchange schedule
    - The Parties agree to review the data and mutually identify or resolve errors and anomalies



- Schedule D New for CTS
  - Article 9.0 CTS Change Management Process
    - Provisions for coordinating future changes that may impact CTS processes
  - Article 10.0 Audits, Certification and Testing
    - Provisions to exchange certification, audit information, and SOC report information associated with CTS related software
    - Provision addressing cyber-security and obligation to inform other Party of CTS-related cyber-security breaches
    - Provision obligating parties to test CTS processes and software prior to implementation and upon making major changes



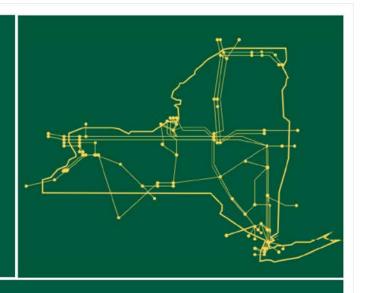
# **Next Steps**

#### Coordination Agreement & Tariff

- MIWG (March 2015)
- MIWG (April 2015)
- MIWG (May 2015)
- BIC (June 2015)
- MC (June 2015)
- BOD (July August 2015)
- Filing (August 2015)
- FERC Approval (October 2015)



The New York Independent System Operator (NYISO) is a not-for-profit corporation responsible for operating the state's bulk electricity grid, administering New York's competitive wholesale electricity markets, conducting comprehensive long-term planning for the state's electric power system, and advancing the technological infrastructure of the electric system serving the Empire State.



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